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By

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor : Mingyao XU et al.  
Filed : May 30, 2006  
For : REDUCED TORQUE VALVE FOR CRYOGENIC  
REFRIGERATOR  
Serial Number : 10/580,917

September 13, 2006

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

SIR:

In order to comply with discretionary regulations 37 CFR §§ 1.97 and 1.98, attached hereto is a copy of Form PTO-1449 and copies of the non-US documents (if any) listed thereon. These documents contain information which the Examiner may consider to be important in deciding whether to issue a patent in the instant application.

For documents written in a language other than English, English language abstracts and/or explanations are annexed thereto explaining relevancy in accordance with 37 CFR §1.98 (a)(3).

Also attached is an International Search Report, dated August 23, 2006, and a Written Opinion of ISA, dated August 23, 2006, both corresponding to the International Patent Application No. PCT/US05/01617.

The present Information Disclosure Statement is being submitted in compliance with 37 § CFR 1.56 as an Examiner might consider any cited document important in deciding whether to allow the application to issue as a patent, but the citation of each document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner in the normal course of examination, will make an independent search and will determine the best prior art consistent with 37 CFR §1.104 (a), and in the course of such search will review for relevance every document cited on the attached form even if not initialed.

As this statement is being filed prior to issuance of a first Office Action, no fee is due. However, any fee determined to be due with this statement may be charged to Deposit Account 50-1290.

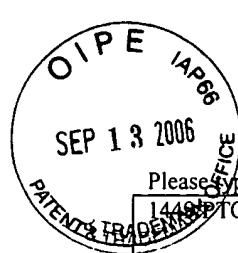
Early and favorable consideration is respectfully solicited.

Respectfully submitted,

Martha M. Rumore

Martha M. Rumore, Pharm. D.  
Reg. No. 47,046

Customer Number: 026304  
Docket No.: ISHI 20.887 (334786-00025)



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Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

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U.S. Department of Commerce  
Patent and Trademark Office

Application No. : 10/580,917

Filing Date : May 30, 2006

First Named Inventor: Mingyao XU

Group Art Unit : Unknown

Examiner Name : Unknown

Attorney Docket No. : ISHI 20.887

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 1 of 1

### U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document	Kind Code if known <sup>2</sup>	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear
		2002/0066276		Kawano et al.	06-06-2002	*
		6,460,349		Kawano et al.	10-08-2002	*
		5,878,580		Schilling et al.	03-09-1999	*
		4,538,416		Riedy	09-03-1985	*
		4,430,863		Longsworth	02-14-1984	*

### FOREIGN DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document Office <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Country	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear

\* Mentioned in the International Search Report dated August 23, 2006

### Other Prior Art-Non Patent Literature Documents

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), data, page(s), volume-issue number(s), publisher, country, where published, source.	Applicant check here if English language translation attached
		PCT/ISA/210 International Search Report for corresponding PCT application PCT/US05/01617, dated August 23, 2006	
		PCT/ISA/237 Written Opinion of ISA for corresponding PCT application PCT/US05/01617, dated August 23, 2006	
Examiner Signature		Date Considered	

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1, if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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